

WEST Search History

[Hide Items](#)[Restore](#)[Clear](#)[Cancel](#)

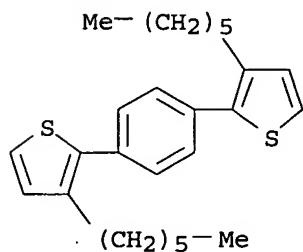
DATE: Monday, October 03, 2005

Hide? Set Name Query**Hit Count***DB=EPAB; PLUR=NO; OP=ADJ*☐ L6 EP-1439590-A2.did. 1*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ*☐ L5 liquid crystal\$ with field effect\$ transistor\$ with polymer\$ 50☐ L4 liquid crystal\$ with field effect\$ transistor\$ 861☐ L3 liquid crystal\$ with fet 670☐ L2 L1 and fet 1☐ L1 20040119049 2

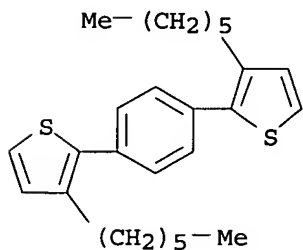
END OF SEARCH HISTORY

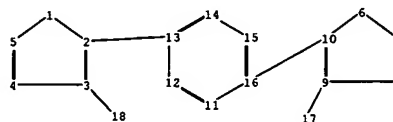
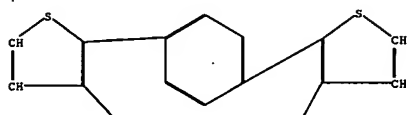
AN 1999:575455 CAPLUS
 DN 131:323145
 ED Entered STN: 14 Sep 1999
 TI Regioregular Di(2'-(thienyl))furan- and Di(2'-(thienyl))benzene-Based
 Polymers: Steric and Heavy-Atom Effects on the Luminescence of Conjugated
 Systems
 AU Yang, Cheng; Abley, Michael; Holdcroft, Steven
 CS Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6,
 Can.
 SO Macromolecules (1999), 32(20), 6889-6891
 CODEN: MAMOBX; ISSN: 0024-9297
 PB American Chemical Society
 DT Journal
 LA English
 CC 36-5 (Physical Properties of Synthetic High Polymers)
 Section cross-reference(s): 73
 AB A systematic investigation of photoluminescence quantum yields (solution and
 solid state) of regiochem. controlled polymers of 1,4-di(2-
 hexylthienyl)benzene, 2,5-di(2'-hexylthienyl)furan, and
 2,5-di[2'-(3'-hexylthienyl)thiophene] is reported. The polymers were
 prepared chemical oxidation of the corresponding monomers in the presence of
 FeCl₃
 in CCl₄. The UV-visible absorption and fluorescence spectra were measured
 for both the monomers and polymers. Fluorescence data and structure of
 solid polymers are discussed together with their suitability as materials
 for light emitting diodes.
 ST ~~regioregular dithienylfuran(dithienylbenzene) deriv. polymer luminescence~~
 IT Polymer chains
 (configuration; steric and heavy-atom effects on luminescence of
 regioregular di(2'-(thienyl))furan- and di(2'-(thienyl))benzene-based
 polymers)
 IT Polymers, properties
 RL: PRP (Properties)
 (conjugated; steric and heavy-atom effects on luminescence of
 regioregular di(2'-(thienyl))furan- and di(2'-(thienyl))benzene-based
 polymers)
 IT Phosphors
 (electroluminescent; steric and heavy-atom effects on luminescence of
 regioregular di(2'-(thienyl))furan- and di(2'-(thienyl))benzene-based
 polymers)
 IT Fluorescence
 UV and visible spectra
 (steric and heavy-atom effects on luminescence of regioregular
 di(2'-(thienyl))furan- and di(2'-(thienyl))benzene-based polymers)
 IT 135831-09-3 249575-17-5 249575-20-0 249575-21-1 249575-22-2
 RL: PRP (Properties)
 (UV spectra and fluorescence of)
 IT 135831-08-2 249575-12-0 249575-13-1 249575-14-2 249575-15-3
 RL: PRP (Properties)
 (monomer; UV spectra and fluorescence of)
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Andreani, F; Polymer 1996, V37, P661 CAPLUS
 (2) Burroughes, J; Nature 1990, V347, P539 CAPLUS
 (3) Chen, F; J Mater Chem 1996, V6, P1763 CAPLUS
 (4) Gill, R; Adv Mater 1994, V6, P132 CAPLUS
 (5) Greenham, N; Chem Phys Lett 1995, V241, P89 CAPLUS
 (6) Gronowitz, S; Thiophene and Its Derivatives Part IV 1991, P1 CAPLUS
 (7) Herrema, J; Macromolecules 1995, V28, P8102 CAPLUS
 (8) Magnani, L; Synth Met 1997, V84, P899 CAPLUS
 (9) Ng; J Mater Chem 1999, V9, P381 CAPLUS
 (10) Ng, S; Synth Met 1998, V92, P33 CAPLUS
 (11) Reyftmann, J; Photochem Photobiol 1985, V41, P1 CAPLUS
 (12) Reynolds, J; Macromolecules 1991, V24, P678 CAPLUS

(13) Roncali, J; J Chem Rev 1992, V92, P711 CAPLUS
 (14) Saadeh, H; Macromolecules 1997, V30, P4608 CAPLUS
 (15) Scaiano, J; Photochem Photobiol 1990, V52, P655 CAPLUS
 (16) Tada, K; J Phys D: Appl Phys 1997, V30, P2063 CAPLUS
 (17) Wynberg, H; Synth Commun 1984, V14, P1 CAPLUS
 (18) Xu, B; Macromolecules 1993, V26, P4457 CAPLUS
 (19) Yan, M; Phys Rev Lett 1994, V73, P744 CAPLUS
 IT 249575-22-2
 RL: PRP (Properties)
 (UV spectra and fluorescence of)
 RN 249575-22-2 CAPLUS
 CN Thiophene, 2,2'-(1,4-phenylene)bis[3-hexyl-, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 249575-15-3
 CMF C26 H34 S2



IT 249575-15-3
 RL: PRP (Properties)
 (monomer; UV spectra and fluorescence of)
 RN 249575-15-3 CAPLUS
 CN Thiophene, 2,2'-(1,4-phenylene)bis[3-hexyl- (9CI) (CA INDEX NAME)





chain nodes :

17 18

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

chain bonds :

2-13 3-18 9-17 10-16

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 11-12 11-16 12-13
13-14 14-15 15-16

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10

exact bonds :

2-13 3-18 9-17 10-16

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS
18:CLASS